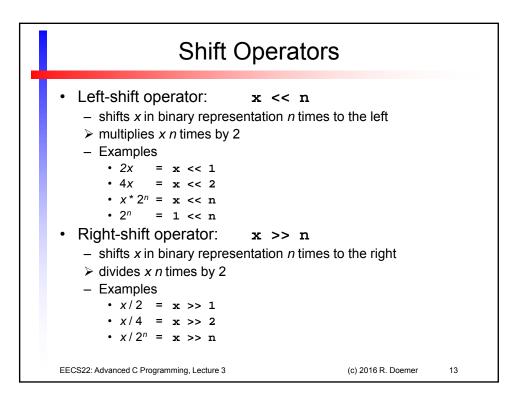
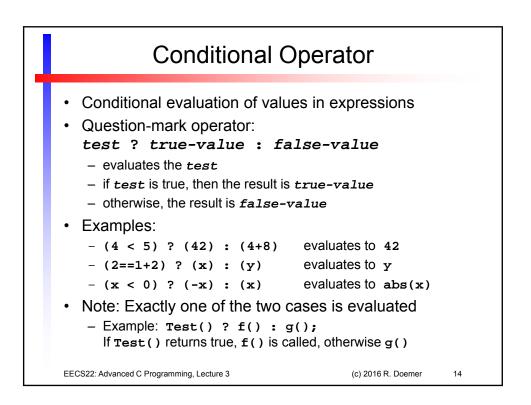
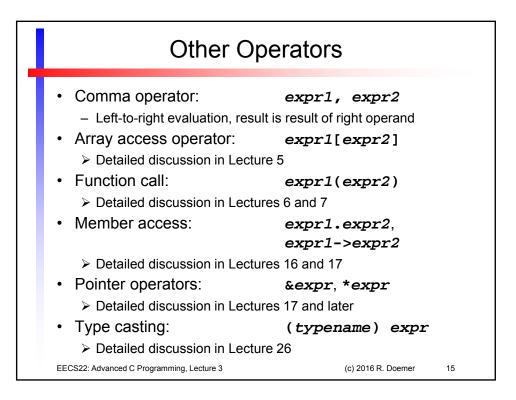


Bitwise Operators				
Operators for bit manipulatio	n			
 – & bitwise "and" 	0xFF & 0xF0 = 0xF0			
– bitwise inclusive "or"	$0xFF \mid 0xF0 = 0xFF$			
 bitwise exclusive "or" 	$0xFF ^ 0xF0 = 0x0F$			
 ~ bitwise negation 	$\sim 0 \times F0 = 0 \times 0 F$			
(one's complement)				
 << left shift 	$0 \times 0 F \ll 4 = 0 \times F 0$			
- >> right shift	0xF0 >> 4 = 0x0F			
Bitwise operators are only available for integral types				
Typical usage				
 Mask out some bits from a value 				
• $c = c \& 0 \times 0F$ extracts lowest 4 bits from char c				
 Set a set of bits in a value 				
• c = c 0x0F sets lowest 4 bits of char c				
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Operator Precedence and Associativity			
 parenthesis, array/member acc unary operators, pointer op., size of, type cast multiplication, division, modulo addition, subtraction shift left, shift right relational operators equality bitwise and bitwise exclusive or bitwise inclusive or logical and logical or conditional operators assignment operators 	!, ~, ++,, +, -, *, δ sizeof, (<i>typename</i>	a, right to left left to right left to right	
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